

NOVEL 1412-3 Ethoxylate



SASOL

Technical Data Sheet

Description

Sasol Chemicals NOVEL 1412-3 Ethoxylate is a biodegradable nonionic derived from linear primary ALFOL 1412 Alcohol. This 3-mole ethoxylate is made using Sasol Chemicals patented NOVEL technology which yields narrow range products with lower free alcohol, PEG levels and melting ranges when compared to the traditional base-catalyzed methods. NOVEL 1412-3 Ethoxylate is liquid at room temperature, essentially 100% active and has the following structural formula: $\text{CH}_3(\text{CH}_2)_x(\text{OCH}_2\text{CH}_2)_3\text{OH}$ where 'x' varies between 11 and 13.

Applications

NOVEL 1412-3 Ethoxylate may be used in a wide array of applications including detergents, personal care, household and industrial cleaning, agricultural adjuvants, pulp and paper processing, textile and leather processing. Additionally, NOVEL 1412-3 Ethoxylate may be further derivatized for use as an anionic surfactant.

Properties

Typical physical properties are listed in the table to the right. Actual properties will vary from lot to lot.

Contact information

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Typical properties	NOVEL 1412-3
Avg. molecular weight, g/mol	336
Avg. EO content, wt. %	39
Free EO, ppm	1 max.
Hydroxyl number, mg KOH/g	161 – 171
Water, wt. %	0.1 max.
Glycol, wt. %	2 max.
Free alcohol, wt. %	18 max.
Density, g/mL @ 40°C / 104°F	0.911
Flash point, °C (°F)	>161 (322)
Cloud point, 10% in BDG, °C (°F)	59 (138)
Pour Point, °C (°F)	7 (45)
Viscosity, cSt @ 40°C / 104°F	17
pH, 1% in IPA/water	6 – 8
Color, APHA, mg Pt/L	50 max.
HLB, calculated	7.9
Wettability on cotton, seconds	--
Critical Micelle Concentration, mg/L	--
SFT, mN/m	--
Average Contact Angle on PTFE	--
Solubility in water, 2 wt. %	Insoluble

**Mix samples well before use.*

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